



# TORQ Analysis of Maintenance Workers, Machinery to Millwrights

## INPUT SECTION:

Transfer	Title	O* NET	Filters		
From Title:	Maintenance Workers, Machinery	49-9043.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Millwrights	49-9044.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

## OUTPUT SECTION:

Grand TORQ:

90

Ability TORQ		Skills TORQ		Knowledge TORQ	
Level	84	Level	91	Level	97

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Information Ordering	67	25	84	Mathematics	69	6	74	No Knowledge Upgrades Required!			
Visualization	62	16	75	Equipment Selection	66	5	82				
Static Strength	59	17	59								
Auditory Attention	60	16	59								
Extent Flexibility	60	16	56								
Multilimb Coordination	53	12	68								
Spatial Orientation	35	16	50								
Speech Clarity	44	12	65								
Near Vision	55	9	75								
Gross Body Equilibrium	35	10	50								
Manual Dexterity	50	6	78								
Selective Attention	51	7	65								
Dynamic Strength	41	9	50								
Depth Perception	48	7	62								
Oral Expression	50	4	59								
Reaction Time	46	4	50								
Control Precision	51	3	62								


















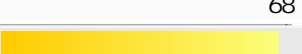






































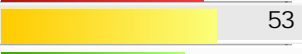























Trunk Strength	44	3	53
Problem Sensitivity	44	2	68
Deductive Reasoning	46	2	68
Oral Comprehension	51	1	59

LEVEL and IMPT (IMPORTANCE) refer to the Target Millwrights. GAP refers to level difference between Maintenance Workers, Machinery and Millwrights.

## ASK ANALYSIS

### Ability Level Comparison - Abilities with importance scores over 50

Description	Maintenance Workers, Machinery	Millwrights	Importance
Information Ordering	42 	67 	84 
Manual Dexterity	44 	50 	78 
Visualization	46 	62 	75 
Near Vision	46 	55 	75 
Problem Sensitivity	42 	44 	68 
Deductive Reasoning	44 	46 	68 
Multilimb Coordination	41 	53 	68 
Selective Attention	44 	51 	65 
Arm-Hand Steadiness	46 	42 	65 
Speech Clarity	32 	44 	65 
Control Precision	48 	51 	62 
Depth Perception	41 	48 	62 
Oral Comprehension	50 	51 	59 
Oral Expression	46 	50 	59 
Static Strength	42 	59 	59 
Auditory Attention	44 	60 	59 
Speech Recognition	37 	35 	59 
Finger Dexterity	44 	44 	56 
Extent Flexibility	44 	60 	56 
Trunk Strength	41 	44 	53 
Inductive Reasoning	44 	41 	50 
Perceptual Speed	48 	37 	50 
Spatial Orientation	19 	35 	50 
Reaction Time	42 	46 	50 
Dynamic Strength	32 	41 	50 
Gross Body Equilibrium	25 	35 	50 



## Skill Level Comparison - Abilities with importance scores over 69

Description	Maintenance Workers, Machinery	Millwrights	Importance
Equipment Selection	61	66	82
Repairing	77	73	82
Installation	78	75	81
Troubleshooting	72	72	76
Mathematics	63	69	74

## Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Maintenance Workers, Machinery	Millwrights	Importance
Mechanical	87	80	87

## Experience &amp; Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Maintenance Workers, Machinery	Millwrights	Description	Maintenance Workers, Machinery	Millwrights
10+ years	0%	8%	Doctoral	0%	0%
8-10 years	3%	0%	Professional Degree	0%	0%
6-8 years	0%	7%	Post-Masters Cert	0%	0%
4-6 years	10%	29%	Master's Degree	0%	0%
2-4 years	10%	8%	Post-Bachelor Cert	0%	0%
1-2 years	48%	17%	Bachelors	2%	0%
6-12 months	5%	19%	AA or Equiv	0%	0%
3-6 months	10%	0%	Some College	6%	1%
1-3 months	0%	0%	Post-Secondary Certificate	25%	33%
0-1 month	0%	0%	High School Diploma or GED	64%	43%
None	9%	7%	No HSD or GED	0%	22%

Maintenance Workers, Machinery

Millwrights

## Most Common Educational/Training Requirement:

Short-term on-the-job training

Long-term on-the-job training

## Job Zone Comparison

1 - Job Zone One: Little or No Preparation Needed

No previous work-related skill, knowledge, or experience is needed for these occupations. For example, a person can become a cashier even if he/she has never worked before.

These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.

3 - Job Zone Three: Medium Preparation Needed

Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.

Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree. Some may require a bachelor's degree.



Employees in these occupations need anywhere from a few days to a few months of training. Usually, an experienced worker could show you how to do the job.

Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.

## Tasks

### Maintenance Workers, Machinery

#### Core Tasks

##### Generalized Work Activities:

- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.

#### Specific Tasks

##### Occupation Specific Tasks:

- Clean machines and machine parts, using cleaning solvents, cloths, air guns, hoses, vacuums, or other equipment.
- Collaborate with other workers to repair or move machines, machine parts, or equipment.
- Collect and discard worn machine parts and other refuse in order to maintain machinery and work areas.
- Dismantle machines and remove parts for repair, using hand tools, chain falls, jacks, cranes, or hoists.
- Inspect or test damaged machine parts, and mark defective areas or advise supervisors of repair needs.
- Install, replace, or change machine parts and attachments, according to production specifications.
- Inventory and requisition machine parts, equipment, and other supplies so that stock can be maintained and replenished.
- Lubricate or apply adhesives or other materials to machines, machine parts, or

### Millwrights

#### Core Tasks

##### Generalized Work Activities:

- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Making Decisions and Solving Problems - Analyzing information and evaluating results to choose the best solution and solve problems.

#### Specific Tasks

##### Occupation Specific Tasks:

- Align machines and equipment, using hoists, jacks, hand tools, squares, rules, micrometers, and plumb bobs.
- Assemble and install equipment, using hand tools and power tools.
- Assemble machines, and bolt, weld, rivet, or otherwise fasten them to foundation or other structures, using hand tools and power tools.
- Attach moving parts and subassemblies to basic assembly unit, using hand tools and power tools.
- Bolt parts, such as side and deck plates, jaw plates, and journals, to basic assembly unit.
- Connect power unit to machines or steam piping to equipment, and test unit to evaluate its mechanical operation.
- Construct foundation for machines, using hand tools and building materials such as wood, cement, and steel.
- Dismantle machinery and equipment for shipment to installation site, usually performing installation and maintenance work as part of team.



materials to machines, machine parts, or other equipment, according to specified procedures.

- Measure, mix, prepare, and test chemical solutions used to clean or repair machinery and equipment.
- Read work orders and specifications to determine machines and equipment requiring repair or maintenance.
- Reassemble machines after the completion of repair or maintenance work.
- Record production, repair, and machine maintenance information.
- Remove hardened material from machines or machine parts, using abrasives, power and hand tools, jackhammers, sledgehammers, or other equipment.
- Replace or repair metal, wood, leather, glass, or other lining in machines, or in equipment compartments or containers.
- Replace, empty, or replenish machine and equipment containers such as gas tanks or boxes.
- Set up and operate machines, and adjust controls to regulate operations.
- Start machines and observe mechanical operation to determine efficiency and to detect problems.
- Transport machine parts, tools, equipment, and other material between work areas and storage, using cranes, hoists, or dollies.

#### Detailed Tasks

##### Detailed Work Activities:

- adhere to safety procedures
- adjust or set mechanical controls or components
- apply cleaning solvents
- assist mechanic, or extractive or construction trades craft worker
- clean equipment or machinery
- clean rooms or work areas
- construct, erect, or repair wooden frameworks or structures
- cut, shape, fit, or join wood or other construction materials
- erect scaffold
- fabricate sheet metal parts or items
- fabricate, assemble, or disassemble manufactured products by hand
- inspect machinery or equipment to determine adjustments or repairs needed
- install equipment or attachments on machinery or related structures
- inventory stock to ensure adequate supplies
- load or unload material or workpiece into machinery
- lubricate machinery, equipment, or parts

- Dismantle machines, using hammers, wrenches, crowbars, and other hand tools.
- Insert shims, adjust tension on nuts and bolts, or position parts, using hand tools and measuring instruments, to set specified clearances between moving and stationary parts.
- Install robot and modify its program, using teach pendant.
- Lay out mounting holes, using measuring instruments, and drill holes with power drill.
- Level bedplate and establish centerline, using straightedge, levels, and transit.
- Move machinery and equipment, using hoists, dollies, rollers, and trucks.
- Operate engine lathe to grind, file, and turn machine parts to dimensional specifications.
- Position steel beams to support bedplates of machines and equipment, using blueprints and schematic drawings, to determine work procedures.
- Repair and lubricate machines and equipment.
- Replace defective parts of machine or adjust clearances and alignment of moving parts.
- Shrink-fit bushings, sleeves, rings, liners, gears, and wheels to specified items, using portable gas heating equipment.
- Signal crane operator to lower basic assembly units to bedplate, and align unit to centerline.

#### Detailed Tasks

##### Detailed Work Activities:

- adhere to safety procedures
- adjust or set mechanical controls or components
- align or adjust clearances of mechanical components or parts
- assemble and install pipe sections, fittings, or plumbing fixtures
- assemble, dismantle, or reassemble equipment or machinery
- conduct performance testing
- conduct tests to locate mechanical system malfunction
- construct, erect, or repair wooden frameworks or structures
- cut, bend, or thread pipe for gas, air, hydraulic, or water lines
- determine installation, service, or repair needed
- determine project methods and procedures
- diagnose mechanical problems in machinery or equipment
- drive truck with capacity greater than 3 tons



- maintain or repair industrial or related equipment/machinery
- maintain repair records
- mix paint, ingredients, or chemicals, according to specifications
- move materials or goods between work areas
- move or fit heavy objects
- observe or listen to machinery or equipment operation to detect malfunctions
- operate crane in construction, manufacturing or repair setting
- operate hoist, winch, or hydraulic boom
- operate sandblasting equipment
- operate vacuum or air hose
- perform safety inspections in industrial, manufacturing or repair setting
- read specifications
- read work order, instructions, formulas, or processing charts
- repair or replace malfunctioning or worn mechanical components
- repair sheet metal products
- requisition stock, materials, supplies or equipment
- signal directions or warnings to coworkers
- test materials or solutions
- test mechanical products or equipment
- understand service or repair manuals
- understand technical operating, service or repair manuals
- use acetylene welding/cutting torch
- use basic carpentry techniques
- use control or regulating devices to adjust or maintain industrial machinery
- use hand or power tools
- use hand or power woodworking tools
- use high voltage apparatus
- use knowledge of metric system
- use measuring devices in repairing industrial or heavy equipment
- use pneumatic tools
- use precision measuring devices in mechanical repair work
- use pressure gauges
- work as a team member

#### Technology - Examples

##### Data base user interface and query software

- Database software

##### Spreadsheet software

- Spreadsheet software

##### Word processing software

- erect scaffold
- estimate time or cost for installation, repair, or construction projects
- fabricate sheet metal parts or items
- fabricate, assemble, or disassemble manufactured products by hand
- identify properties of metals for repair or fabrication activities
- inspect electrical installation for code conformance
- install electrical conduit or tubing
- install electrical fixtures or components
- install electronic equipment, components, or systems
- install equipment or attachments on machinery or related structures
- install generating plant equipment
- install industrial machinery or related heavy equipment
- install or replace meters, regulators, or related measuring or control devices
- install/connect electrical equipment to power circuit
- install/string electrical or electronic cable or wiring
- lay out machining, welding or precision assembly projects
- lubricate machinery, equipment, or parts
- maintain or repair industrial or related equipment/machinery
- maintain or repair work tools or equipment
- maintain welding machines or equipment
- move materials or goods between work areas
- move or fit heavy objects
- operate hoist, winch, or hydraulic boom
- operate lathes
- operate pneumatic test equipment
- perform detailed welding techniques
- perform hydraulic plumbing
- perform safety inspections in industrial, manufacturing or repair setting
- plan or organize work
- position, align, or level machines, equipment, or structures
- program computer numerical controlled machines
- read blueprints
- read schematics
- read specifications
- read technical drawings
- read work order, instructions, formulas, or processing charts
- repair or replace malfunctioning or worn mechanical components
- set up and operate variety of machine



- Word processing software

#### Tools - Examples

- Abrasive wheels
- Abrasive rubbing stones
- Adjustable widemouth pliers
- Adjustable wrenches
- Bandsaws
- Oxyacetylene torches
- Dial calipers
- Compressed air guns
- Deburring tools
- Dollies
- Drill bits
- Ear plugs
- Forklifts
- Dial indicators
- Grease guns
- Lapping equipment
- Hammers
- Hard hats
- Chain falls
- Hold down clamps
- Jacks
- Ladders
- Lathes
- Levels
- Lockout hasps
- Metal cutters
- Metal inert gas MIG welders
- Micrometers
- Milling machines
- Personal computers

set up and operate variety of machine tools

- set up computer numerical control machines
- signal directions or warnings to coworkers
- test electrical/electronic wiring, equipment, systems or fixtures
- test mechanical products or equipment
- understand service or repair manuals
- understand technical operating, service or repair manuals
- use acetylene welding/cutting torch
- use arc welding equipment
- use basic carpentry techniques
- use basic plumbing techniques
- use combination welding procedures
- use concrete fabrication techniques
- use control or regulating devices to adjust or maintain industrial machinery
- use electrical or electronic test devices or equipment
- use hand or power tools
- use high voltage apparatus
- use knowledge of metric system
- use knowledge of welding filler rod types
- use machine tools in installation, maintenance, or repair
- use measuring devices in repairing industrial or heavy equipment
- use pipe fitting equipment
- use pneumatic tools
- use precision measuring devices in mechanical repair work
- use pressure gauges
- use robotics systems technology
- use soldering equipment
- verify levelness or verticality, using level or plumb bob
- weld together metal parts, components, or structures
- work as a team member

#### Technology - Examples

##### Computer aided design CAD software

- Autodesk AutoCAD software
- Computer aided design CAD software
- SolidWorks CAD software

##### Office suite software

- Microsoft Office

#### Tools - Examples

- Adjustable wrenches



- Plumb bobs

- Jackhammers

- Buffing machines

- Power drills

- Grinding machines

- Bench saws

- Punches

- Reamers

- Respirators

- Rivet guns

- Rulers

- Safety glasses

- Safety belts

- Hacksaws

- Scaffolding

- Screwdrivers

- Shears

- Rigging equipment

- Socket wrench sets

- Soldering guns

- Steel rules

- Sheet metal folders

- Dies

- Pipe threaders

- Tungsten inert gas TIG welding equipment

- Industrial vacuums

- Arc welders

- Welding tips

- Spot-welding equipment

- Workshop cranes

- Brakes

- Air compressors

- Bandsaws

- Workshop bench vises

- Block and tackle equipment

- Oxyacetylene torches

- Box end wrenches

- Keyway broaches

- Dial calipers

- Cold chisels

- Combination wrenches

- Dividers

- Depth gauges

- Diagonal cutters

- Dollies

- Cylinder hones

- Protective ear muffs

- Welding electrode holders

- Angled feeler gauges

- Flat files

- Forklifts

- Gage blocks

- Gas-powered generators

- Dial indicators

- Gear shapers

- Safety goggles

- Filler pumps

- Surface grinders

- Chipping hammers

- Ball peen hammers

- Hand clamps

- Bucket pumps

- Handtrucks





- |                               |
|-------------------------------|
| • Height gauges               |
| • Allen wrenches              |
| • Chain falls                 |
| • Gasket cutters              |
| • Hydraulic press frames      |
| • Hydraulic pumps             |
| • Bearing heaters             |
| • Hydraulic jacks             |
| • Ladders                     |
| • Turning lathes              |
| • Transit levels              |
| • Carpenters' levels          |
| • Hoisting hooks              |
| • Inspection mirrors          |
| • Chain cutters               |
| • Metal inert gas MIG welders |
| • Prick punches               |
| • Teach pendants              |
| • Depth micrometers           |
| • End mills                   |
| • Needlenose pliers           |
| • Nibblers                    |
| • Nut splitters               |
| • Lubrication guns            |
| • Personal computers          |
| • Pipe cutters                |
| • Pipe wrenches               |
| • Planing machines            |
| • Plasma welders              |
| • Plumb bobs                  |
| • Pneumatic needle scalers    |
| • Core drills                 |



- Power grinders
- Belt sanders
- Cutoff saws
- Welding gloves
- Bevel protractors
- Crowbars
- Bearing pullers
- Center punches
- Putty knives
- Pyrometers
- Scrapers
- Reamers
- Respirators
- Retaining ring pliers
- Rivet guns
- Shrink rules
- Scaffolding
- Spiral screw extractors
- Scribes
- Honing stones
- Scissors
- Material-hoisting slings
- Socket sets
- Soldering guns
- Spanner wrenches
- Chain wrenches
- Stroboscopes
- Combination squares
- Straightedges
- Strap wrenches
- Tachometers
- Tap extractors



- Measuring tapes
- Dies
- Alignment telescopes
- Layout templates
- Tension indicators
- Snap gauges
- Thread gauges
- Pipe threading machines
- Tin snips
- Torque multipliers
- Tungsten inert gas TIG welding equipment
- Ultrasonic thickness detectors
- Utility knives
- Vibration indicators
- Arc welders
- Welding shields
- Spot welding equipment
- Wire brushes
- Cable cutters
- Hydraulic cranes
- Arbor presses

### Labor Market Comparison

Description	Maintenance Workers, Machinery	Millwrights	Difference
Median Wage	\$ 34,100	\$ 41,280	\$ 7,180
10th Percentile Wage	\$ 18,630	\$ 30,940	\$ 12,310
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 38,610	\$ 49,110	\$ 10,500
90th Percentile Wage	\$ 43,370	\$ 54,780	\$ 11,410
Mean Wage	\$ 32,410	\$ 41,500	\$ 9,090
Total Employment - 2007	290	830	540
Employment Base - 2006	337	883	546



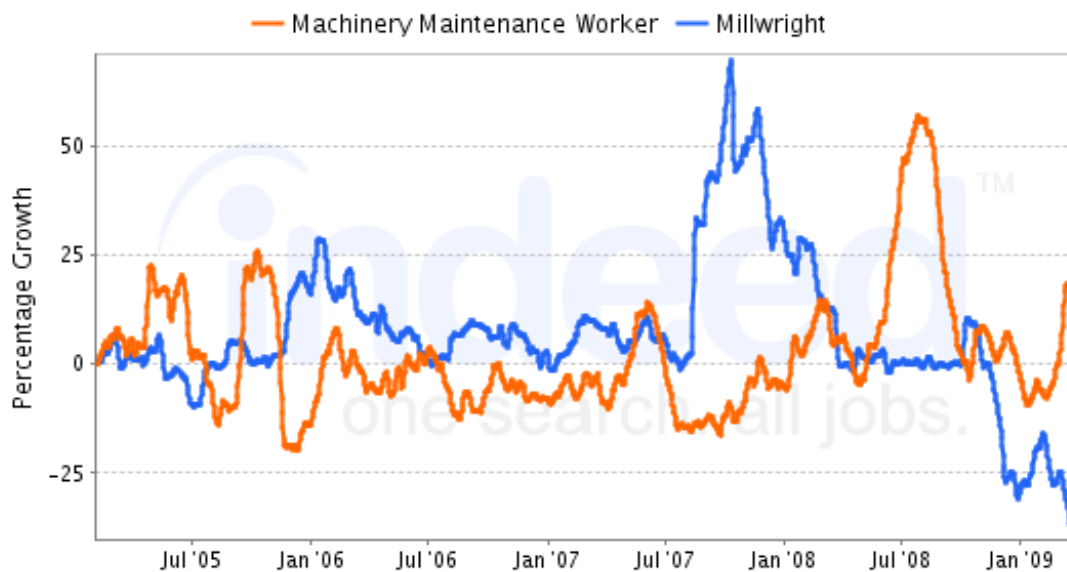
Projected Employment - 2016	278	774	496
Projected Job Growth - 2006-2016	-17.5 %	-12.3 %	5.2 %
Projected Annual Openings - 2006-2016	5	11	6

## National Job Posting Trends

Trend for Maintenance Workers, Machinery

Trend for  
Millwrights

### Job Trends from Indeed.com

Data from [Indeed](http://Indeed.com)

## Recommended Programs

### Industrial Machinery Main. and Repairer

Industrial Mechanics and Maintenance Technology. A program that prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as cranes, pumps, engines and motors, pneumatic tools, conveyor systems, production machinery, marine deck machinery, and steam propulsion, refinery, and pipeline-distribution systems.

Institution	Address	City	URL
Kennebec Valley Community College	92 Western Ave	Fairfield	<a href="http://www.kvcc.me.edu">www.kvcc.me.edu</a>

### Heavy/Industrial Equipment Maintenance Technologies, Other

Heavy/Industrial Equipment Maintenance Technologies, Other. Any instructional program in industrial equipment maintenance and repair not listed above.

No schools available for the program

## Maine Statewide Promotion Opportunities for Maintenance Workers, Machinery

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
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49-9043.00	Maintenance Workers, Machinery	100	1	290	\$34,100.00	\$0.00	-17%	5
51-4121.06	Welders, Cutters, and Welder Fitters	91	2	1,610	\$38,030.00	\$3,930.00	7%	49
49-9044.00	Millwrights	90	3	830	\$41,280.00	\$7,180.00	-12%	11
49-3051.00	Motorboat Mechanics	88	3	240	\$34,980.00	\$880.00	6%	8
47-5021.00	Earth Drillers, Except Oil and Gas	88	3	140	\$37,470.00	\$3,370.00	2%	4
49-9041.00	Industrial Machinery Mechanics	88	3	990	\$39,370.00	\$5,270.00	7%	25
51-4034.00	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	88	3	110	\$34,350.00	\$250.00	-9%	2
49-3031.00	Bus and Truck Mechanics and Diesel Engine Specialists	87	3	1,180	\$34,210.00	\$110.00	6%	34
47-2011.00	Boilermakers	87	4	60	\$39,260.00	\$5,160.00	12%	3
49-3042.00	Mobile Heavy Equipment Mechanics, Except Engines	87	4	880	\$37,010.00	\$2,910.00	5%	22
49-2094.00	Electrical and Electronics Repairers, Commercial and Industrial Equipment	86	3	440	\$49,450.00	\$15,350.00	-19%	15
49-2093.00	Electrical and Electronics Installers and Repairers, Transportation Equipment	85	3	130	\$35,960.00	\$1,860.00	4%	4
51-4111.00	Tool and Die Makers	85	3	160	\$51,670.00	\$17,570.00	-11%	2
47-4021.00	Elevator Installers and Repairers	84	4	0	\$50,960.00	\$16,860.00	0%	0
51-4041.00	Machinists	84	3	1,860	\$41,560.00	\$7,460.00	4%	35

### Top Industries for Millwrights

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Other building equipment contractors	238290	20.13%	11,049	12,977	17.45%
Nonresidential building construction	236200	8.45%	4,639	5,633	21.42%



Pulp, paper, and paperboard mills	322100	5.62%	3,084	2,318	-24.83%
Iron and steel mills and ferroalloy manufacturing	331100	4.25%	2,335	1,703	-27.05%
Plumbing, heating, and air-conditioning contractors	238220	3.94%	2,160	2,644	22.38%
Sawmills and wood preservation	321100	3.80%	2,088	1,814	-13.12%
Self-employed workers, primary job	000601	3.19%	1,752	2,023	15.45%
Veneer, plywood, and engineered wood product manufacturing	321200	2.94%	1,615	1,905	18.01%
Foundries	331500	2.50%	1,371	1,077	-21.42%
Commercial and industrial machinery and equipment (except automotive and electronic) repair and maintenance	811300	2.19%	1,204	1,381	14.68%
Employment services	561300	1.22%	671	921	37.15%
Nonferrous metal (except aluminum) production and processing	331400	1.15%	633	480	-24.19%
Other specialty trade contractors	238900	1.14%	627	751	19.77%
Other heavy and civil engineering construction	237900	0.88%	486	565	16.39%
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	325200	0.85%	466	406	-13.01%

### Top Industries for Maintenance Workers, Machinery

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Local government, excluding education and hospitals	939300	6.40%	5,397	6,063	12.34%
Motor vehicle parts manufacturing	336300	3.89%	3,278	2,610	-20.39%
Plastics product manufacturing	326100	3.16%	2,666	2,826	6.00%
Animal production; primary job	112000	2.73%	2,304	2,043	-11.34%
Animal slaughtering and processing	311600	2.47%	2,079	2,373	14.13%
Commercial and industrial machinery and equipment (except automotive and electronic) repair and maintenance	811300	2.36%	1,988	2,104	5.82%
Support activities for air transportation	488100	2.25%	1,897	2,292	20.80%
Coal mining	212100	1.76%	1,483	1,498	0.99%
Pharmaceutical and medicine manufacturing	325400	1.71%	1,439	1,814	26.03%
Colleges, universities, and professional schools, public and private	611300	1.70%	1,437	1,608	11.87%
Fabric mills	313200	1.53%	1,286	908	-29.38%
Commercial and industrial machinery and equipment rental and leasing	532400	1.52%	1,281	1,565	22.19%
Pulp, paper, and paperboard mills	322100	1.49%	1,256	871	-30.64%



Electric power generation, transmission and distribution	221100	1.47%	1,241	1,141	-8.03%
Converted paper product manufacturing	322200	1.39%	1,168	980	-16.08%